

## ON LINE CRUDE OIL QUALITY MONITORING METHOD AND APPARATUS

### ABSTRACT

A method and an apparatus for monitoring the quality of crude oil, including oil, gas, and water holdup, are disclosed on-line. The apparatus comprises a series of fiber optical sensors that are installed into the transferring pipe of the crude oil, which exits at any given moment from underground. The method provides analytical data on-line concerning the status of the crude oil at any point in time. Great reliability and a quick response can be expected without sending samples to a laboratory. Therefore, the invented method allows the user to adjust the technology of the oil extraction according to the status of the crude oil.